MITSUBISHI



MR-H290S

OPERATING INSTRUCTIONS



Easy Refrigerator Use

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- Please read this manual carefully and follow the information contained within. In particular, be sure to read the safety precautions before using this refrigerator.
- Be sure to receive your copy of the warranty from the retailer and confirm that the purchase date and retailer name are written on the warranty.
- Store this operating instructions manual and the warranty in a safe place.
- This refrigerator was manufactured for refrigerating and freezing of foods in general households. For commercial use, please use a commercial refrigerator-freezer.
- The principal plastic components indicate the material name to facilitate recycling.

From Installation to Operation

Installation location

The installation location should be a well-ventilated area out of direct sunlight and not exposed to hot air

- to avoid diminished cooling power and to economise on electricity costs.

Low humidity

is recommended to prevent rusting

Strong and level location

is recommended to prevent vibration and noise

If the refrigerator is installed on flooring on which the refrigerator supports easily sink (such as carpeting, ven mats, polyvinyl chloride flooring, etc.) place a strong plate or board under the refrigerator (This is necessary to prevent deformation or discoloration due to heat.)

Away from other household appliances

is recommended to prevent noise or image interference with televisions, etc

Leave space for heat ventilation

Leave at lease 2 cm. of space to the left and right of the refrigerator and at least 10 cm. of space above the refrigerator

to allow heat to escape from above and to the sides of the refrigerator

The exterior of the refrigerator gets hot

When the refrigerator is first used and during the summer, the exterior temperature can exceed 50-60 °C.

Electrical Connections

Make sure this unit is properly grounded.

- The unit should always be plugged into its own electrical outlet. This will provide the best performance and prevent electrical circuits from being overloaded and causing a fire. Make sure that the electrical outlet provides the proper voltage. Extension cords are not recommended.
- If your power cord has a 3-pin power plug and the electrical outlet is not equipped with such a plug, change the electrical outlet, not the power plug. Do not cut or remove the 3-pin
- If the power cord is damaged, purchase a new cord form MITSUBISHI SERVICE CENTER. Make sure that the power cord is designed for this model.
- If the power cord is damaged, call our MITSUBISHI SERVICE CENTER for the replacement, in order to avoid a hazard.
- This refrigerator uses flammable foaming gas for insulation.
- Please deliver the unit to specialised industrial waste dealer when you dispose of it.
- Please follow the rules in your country.

Adjust support for level installation

Turn the adjustable supports located at the bottom front of the refrigerator for a level installation.

to prevent vibration, noise, refrigerator movement, and doors that do not close properly.

∕.∖Caution -

If the refrigerator is not installed properly, it can move and cause injury.



When it turns to the direction of the arrow, it becomes high.

Prepare for earthquakes

Thread strong belts through the 2 hand-grip recesses on the upper rear of the refrigerator and secure them to the wall, posts, or other strong area.

Consult the refrigerator retailer for tip-prevention belts for your refrigerator (sold separately)



Your refrigerator can cause injury if it tips



Use a dedicated outlet

Use a dedicated outlet for the power supply that meets the rating specified on the rating label. (The rating label is located on the door-liner of the refrigerator compartment)

<u>✓</u> Warning

Using outlets that do not meet the specified rating or plugging in too many leads into a single socket can cause heat build up or fire

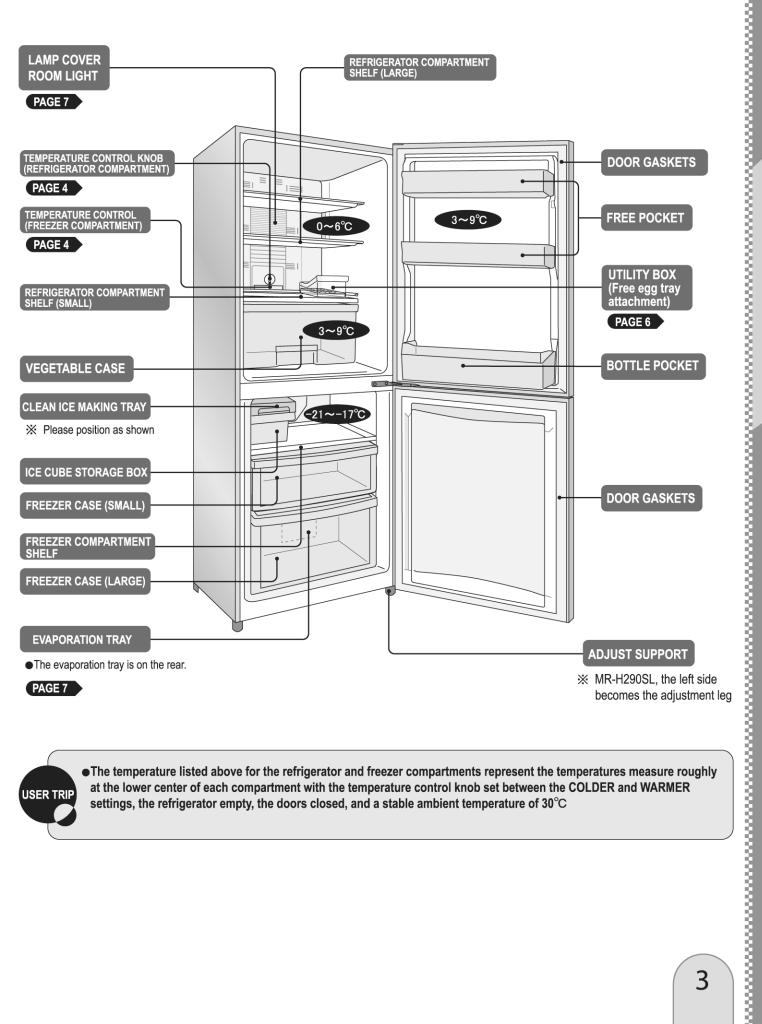
To ensure quick cooling

The refrigerator will not immediately cool after power is turned on. It normally take 4 - 5 hours for the refrigerator too cool.

Especially during hot summers, it may take 24 hours to make the first batch of ice.

- Leave space between food items.
- Allow the refrigerator to cool sufficiently before you store non-cooled food
- Open and close the doors only as much as necessary and do not leave them open for long periods of time.

Compartment name and Use





•The temperature listed above for the refrigerator and freezer compartments represent the temperatures measure roughly at the lower center of each compartment with the temperature control knob set between the COLDER and WARMER settings, the refrigerator empty, the doors closed, and a stable ambient temperature of 30°C

Controlling Temperature for Each Compartment

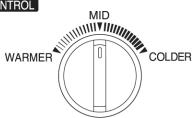
REFRIGERATOR COMPARTMENT

Should normally be used with the [MID] setting.

FREEZER COMPARTMENT

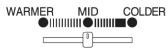
Should normally be used with the [MID] setting.





Control Knob Setting	Usage
COLDER	For stronger cooling, or in summer when the ambient temperature is high.
MID	Normal
WARMER	In case of overcooling or freezing.

FREEZER CONTROL



Control Knob Setting	Usage
COLDER	In winter when cooling in the Freezer Compartment is weak, or for stronger cooling.
MID	Normal
WARMER	When there are no frozen foods in the compartment or when storing frozen foods for shorter periods (approx. 1 month).

There are cases where temperature adjustment is required depending on the room temperature.

In winter when cooling in the Freezer Compartment is weak.

 Cases where cooling in the freezer compartment is weak even when the Freezer Compartment knob is set to [COLDER], for example, when the ambient temperature is low in winter.

Set the Freezer Compartment knob to [COLDER]. Turn the Refrigerator Compartment knob to [COLDER].

- This is because the compressor operates according to the temperature of the Refrigerator Compartment.
- The overall cooling effect increases, and the Freezing Compartment also becomes colder.
- **When the ambient temperature increases in spring, etc., return each knob to the [MID] position.

When cooling in the refrigerator compartment is weak, such as in summer.

● Cases where cooling in the refrigerator compartment is weak in summer, etc. when the knob on the freezer compartment is set to [COLDER]

•If cooling in the refrigerator compartment is weak even when the knob for the refrigeration compartment is set to [COLDER], such as in summer when the ambient temperature is high or there is frequent opening and closing of the refrigerator door.

Return the knob on the freezing compartment to [WARMER] .

- Cold air is sent in larger amounts to the refrigerator compartment.
- *If the knob on the freezer compartment is set constantly to [WARMER], the frozen foods may become soft.

Effective Use of your refrigerator

Energy-Saving

Too many items in the refrigerator decrease the cooling efficiency.

- Make sure there is space between items.
- Avoid frequent opening and closing of the refrigerator door or leaving the door open.

Even a slight opening of the door can lead to frost buildup and poor cooling.

 Make sure that no food items, plastic bags or electric cords, etc. are pinched by the door when closing.

To avoid freezing of foods in the refrigerator compartment.

- The temperature adjustment knob should be returned to the [MID] position except when extra cooling is required.
- Store beverages or foods with a high liquid content in the front of the refrigerator.

Points to remember when inserting goods

- Wrap or cover items to prevent them from drying out and to prevent odors.
- Allow hot items to cool off before placing them in the refrigerator.

Usage: Freezer Compartment

Ice-Making: Making good-tasting ice with high transparency.

Assemble the upper and lower trays and fill with water, making sure not to exceed the level indicated by the arrow.

Water level line Upper trav

The upper tray produces ice with high transparency.



When the ice is ready, bend the tray with the upper and lower trays still assembled to remove the ice.



Note

The lower tray produces a whiter ice than the top tray due to impurities

in the water and should be used when flavour is not an issue. •If ice-making is carried out with white ice in the lower tray, it will not be possible to produce ice with high transparency. Remove the ice in the lower tray before making ice.

•If the ice-making trays are bent as shown in the picture or excessive force is applied, this could lead to cracking of the trays. In case of cracking, discontinue use.

 Do not make ice in the ice storage box as this could cause cracking of the box.



User tip

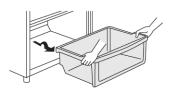
- Making ice in the upper tray takes longer as the ice maker removes bubbles and minerals from the tap water. The ice-making time depends on the amount of water used. *When using only the lower tray, it is not possible to produce ice with high transparency.
- Ice made with mineral water or water with a high mineral content may have white sediment (white crystals). This is not harmful as this happens when the mineral content
- •If ice is kept in the freezer for longer periods, the individual ice cubes might join together or become smaller (as a result of the phenomenon known as sublimation).
- There may be white areas or bubbles in the ice.
- The transparency of the ice could change in the following cases due to creating more white sections.
 - When using water with a high hardness level (mineral sediment in the ice).
 - •The ambient temperature or the usage condition of the refrigerator changes.
 - When ice is stored for long periods in the ice storage box. (This causes frost on the ice surface. Frost can be removed by placing it in water).

Removing and inserting the freezing cases (large and small)

Use the reverse order when inserting the cases.

Pull the freezing case all the way out.

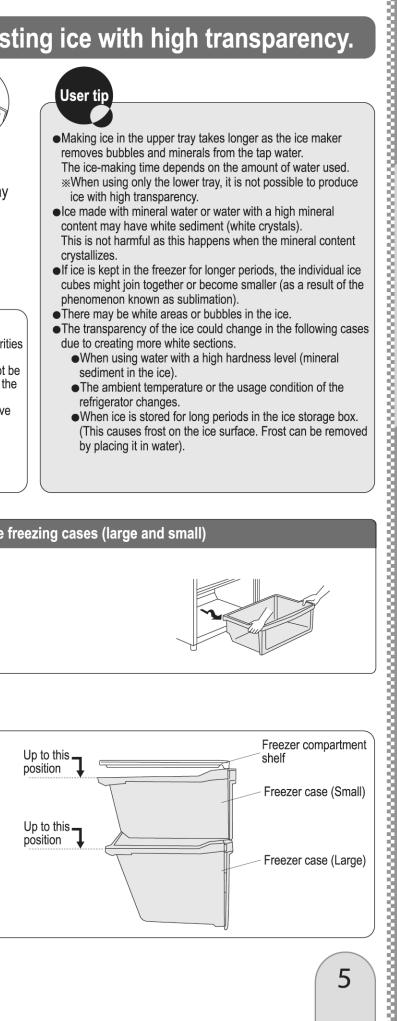




Note

Make sure that no food items are protruding from the freezing case when storing them.

- A protruded food item could prevent full closing of the door, causing frost buildup in the freezer and poor cooling or equipment failure.
- Could cause damage to foods or the freezing case.
- After inserting foods, make sure that the freezing case is definitely inserted all the way to the back to prevent partial opening of the freezer door.



Usage: Refrigerator Compartment

Utility Box, Free egg tray

Can be used for various purposes.

Storage of eggs and small items

 Can be used by inserting the free egg tray in the egg and small-item





Storage of fruits and smaller vegetables

 Can be used by inserting the egg and small-item case in the vegetable case (can be slid sideways).

*Be sure to insert in the direction shown in the picture.

Vegetable Case

Sliding case for easy opening

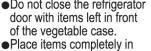


- •We recommend wrapping vegetables and fruits in kitchen wrap before storing in the refrigerator to help preserve freshness for longer time.
- There is an anti-freeze heater in the refrigerator floor below the vegetable case to prevent items from freezing. Never place items directly in contact with the floor without the case.



- Do not leave food items hanging over the edge of each shelf.
- Do not place bottles or other items in the front of the bottle pocket that do not fit completely in the pocket.

*This will stop the door from closing properly and could break bottles. Do not close the refrigerator

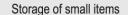


the vegetable case. Do not attach anything to the outside of the pocket.

*This will prevent the door from closing properly and could damage the vegetable case.







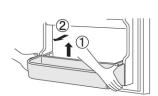
The egg and small-tem case can be attached to either left or right side of the free pockets for use.

Removing and Reinstalling

Reverse the removal procedures to reinstall the accessories.

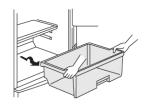
Free pocket and Bottle pocket

- Lift up the left and right sides alternately. (The pocket are installed securely.)
- Pull towards you.



Vegetable case

- Pull the vegetable case all the way out.
- Lift up in your direction to pull and remove.



Removing and Maintaining

Before you start maintenance

Remove the power cord plug from the outlet.



Wait at least 10 minutes before you plug the power cord plug back into the outlet. The refrigerator will not operate if the plug is reinserted soon afther it is removed.

∕!\ Warning

Failure to remove the power cord plug can cause electric

How to maintenance

Cleaning

- Wipe or remove and wash with water.
- To remove oily deposits, wet a cloth with lukewarm water or dishwashing detergent and wipe clean.(deposits left on plastic parts can cause them to break)
- Be sure to completely wipe off any detergent you use.
- For chemically-treated disposable cloths, be sure to read all of the instructions and observe the precautions.
- Do not use alcohol, benzene, scouring brushes, or alkaline detergent. They can damage the surface of plastics parts (door handles, cap, case, etc.)and cause them to break.





Rear of the refrigerator and floor

The refrigerator is pulled out foreward. ②Wipe away any dirt from the wall floor, or rear of the refrigerator. Air circulation can cause dust to collect in the area behind and under the refrigerator. These areas also easily become black.



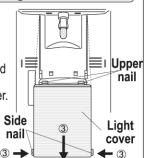
∕!\ Caution

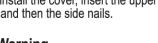
Do not touch the compressor at the bottom of the refrigerator - it can become very hot.

Do not put your hands into the bottom opening of the refrigerator.(Doing so can cause injury)

Replacing the interior light bulb

- ①Remove the power cord plug from the outlet.
- ②Remove the refrigerator compartment shelf (Large).
- ③Push the side nail of both the right hand side and left hand side, pull the cover forward and then remove the light cover.
- Purchase a 240V 15W glass light bulb (metal cap E-12) from your refrigerator retailer.
- Replace the interior light bulb.
- ⑤To reinstall the cover, insert the upper nails and then the side nails.



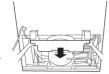


/!\ Warning

Using non-specified light bulbs can cause a fire.

How to remove the drain pan

- ①Pull the refrigerator away from the walls.
- ②Remove the drain pan as shown.
- 3When removing the drain pan, pull up on the drain pan at a slight angle so it does not contact the drainpipe.
- To install, insert the drain pan completely so the drainpipe is located above the drain pan. (Failure to insert the drain pan completely can lead to water leaks, noise, and vibration.)



After maintenance

Inspecting the power cord, plug, and outlet

- Is the power cord or plug damaged?
- •Has dust collected on the power cord plug?
- Is there abnormal heat buildup in the power cord plug?
- Is the outlet loose?



 Is the power cord plug inserted securely into the outlet?

Damage to the power cord or plug or dust buildup can cause electric shock or a fire.

What to do

Blackouts(electric power goes out)

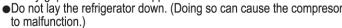
 Refrain from opening and closing the refrigerator doors and avoid storing additional food items in the refrigerator.

Long periods of nonuse

- •After removing the power cord plug from the outlet, clean the interior of the refrigerator and leave the doors open for 2-3 days to let interior dry completely.
 - *Failure to let the interior of the refrigerator dry completely can cause molding, odors, and refrigerant (gas) leakage due to corrosion of the condenser.

Transporting the refrigerator

- 1.Discard the water or ice in the ice tray.
- 2.Discard the water that has collected in the drain pan.
- 3. Gently transport the refrigerator with 2 or more people, holding the lower front interior and the handy-grip recesses on the upper rear of the unit.



 If changing residences, it is not necessary to change the frequency of the power supply. (Both 50 and 60 Hz are compatible.)



Safety Precautions

- Danger and degree of danger caused by improper handling are categorised and described using the following symbols.
- Meaning of symbols.
- In the case of malfunction or defect, immediately turn off the refrigerator and contact your refrigerator retailer, the Mitsubishi Electric Maintenance Service, or representative



Do not do



Do not touch



Do not attempt to disassemble, repair or alter



Do not get wet or dampen with water



supervision.

appliance.

Be sure to follow the instructions as

The appliance is not intended for use by

Young children should be supervised to

ensure that they do not play with the

young children or infirm persons without



Be sure to remove the power cord plug form the outlet



for this model.

shock or a fire.

refrigerator.

Be sure to ground the refrigerator



If the power cord is damaged, call our Mitsubishi

Do not touch with wet hands.



Anchor the refrigerator to a strong wall or post to prepare for an earthquake. This will prevent tipping over and causing injury Page 2



Use a dedicated outlet for the power supply that meets the rating specified on the rating label. Page 2

Only use an outlet that meets the specified rating

Do not store medicine or scientific specimens in the refrigerator. Items that require strict management cannot

Do not store

Do not use flammable sprays near the refrigerator. Sparks form electric contact can cause

Do not wash with water or spill food

liquids on the refrigerator.

Do not use

Do not place containers with water on top of the refrigerator. Wet electrical parts can cause electric

Do not place volatile flammable items

Do not place objects on top of the

opened and closed and cause injury.

The objects may fall when the doors are

Service Center for the replacement.

If the power cord is damaged, purchase

a new cord from Mitsubishi Service Center.

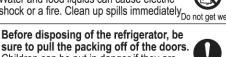
Make sure that the power cord is designed

If you notice a gas leak, do not touch the refrigerator, Open the windows to ventilate. Sparks from electric contact can cause an explosion or a fire.

be stored in household refrigerator.



Water and food liquids can cause electric shock or a fire. Clean up spills immediately_{Do not get we} Before disposing of the refrigerator, be



inside the refrigerator. Benzene, cosmetics and hair products can catch fire and explode.

Do not disassemble, repair or alter. Doing so can cause injury, electric shock or a fire.



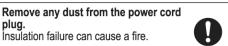
Do not disasse

Children can be put in danger if they are trapped in side the refrigerator. Remove the packing Use only interior light bulbs with the





plug. Insulation failure can cause a fire.



Doing so can damage the power cord and cause electric shock or a fire. Do not use damaged power cords or plug

Do not pull on the power cord to remove

or loose outlets. Doing so can cause electric shock or a fire.



Do not pull on the power cord to remove the plug.

Doing so can damage the power cord and cause electric shock or a fire.



Remove the power cord plug from the outlet before maintenance or changing the interior light bulb. Failure to do so can cause electric shock or injury.

Remove the plug



Do not press the back of the refrigerator against the power cord plug. Do not damage the power cord.

Pressing against, placing weight on, folding, or bundling the power cord can cause electric shock or a fire.



In case of a malfunction (burning odour is detected, etc.), remove the power cord plug from the outlet and turn off the refrigerator. Continued operation of the refrigerator

with a malfunction can cause electric shock or a fire.



Do not hang on the door or door handle. The refrigerator may tip over and cause injury.





Use the adjusting supports so the refrigerator is securely installed on a strong level surface.

If the refrigerator is not installed properly it

could move and cause injury. Page 2

compartment. The contents of the bottle can freeze and cause the bottle to break and cause injury.

The metal plates, etc., on the bottom of the

refrigerator can cause injury.

Do not place glass bottles in the freezer



Install leve

Use transportation handholds when transporting the refrigerator. Holding other parts can cause injury.

Do not eat food that has a strange odour or is

Doing so can cause food poisoning or illness.

Page 7

hold the handholds

Do not excessively pack the refrigerator with food or remove the shelves with excessive force Doing so can cause food items to fall and cause injury.

Prohibited Do not touch food items or containers in the freezer compartment with wet hands.

Doing so can cause frostbite.

No wet hands

Do not store Do not put your hands or feet underneath the Do not put your hands or feet underneath refrigerator.

the refrigerator. Use the door handle to close the door.

8

Prohibited

Troubleshooting

If the problem is not resolved after troubleshooting, contact the distributor - see the last page - for assistance.

Problem Check the following Solutions and reasons Refrigerator does not cool ①Check the power cord plug and the circuit breaker. 1) Is the refrigerator receiving power? 1) Adjust the temperature control knob to a cooler setting 1) Is the temperature control knob set to MID or a left of MID? Page 4 (towards COLDER) 2) Has the refrigerator just been installed? 2 It sometime takes 24 hours for the refrigerator to cool in 3 Is there sufficient space around the refrigerator? 3 Check that the refrigerator is installed and set up correctly. Is the refrigerator in direct sunlight or is heat ventilation Refrigerator does not cool sufficiently; refrigerator produces little ice or ice melts 4 Have you blocked the flow of refrigerator air? (4) Check that the refrigerator is not excessively packed with Is the door opened frequently or left ajar? food items and that the doors are not ajar. Page 2 ①Is the temperature control knob for the refrigerator Adjust the temperature control knob to a warmer compartment set to COLDER ? setting (towards MID). Have you placed items with high water content in the 2Store beverages and food items that have high water content Items in refrigerator compartment begin to freeze back of the refrigerator. such as vegetables and fruit in the front of the refrigerator. 3Set the temperature control knob to MID so food items will ③Is the ambient temperature less than 5°C? not freeze easily. (1)Condensation and frost can form if the doors are only slightly 1 Is the door opened frequently or left ajar? ajar and the moisture in the air cools. Condensation collects 2 Condensation may temporarily collect on the refrigerator. ②Is it a rainy or highly humid time of the year? on the exterior of the refrigerator and frost collects in the freezer Wipe the refrigerator with a dry cloth. In addition, frost may form easily in the freezer compartment. Open and close the compartment freezer compartment door only as much as necessary. 1 Is any food item contacting a door? Is the refrigerator ①Do not store food items so that they stick out from the shelves excessively packed with food items? 2) Has any food item dropped behind the case in one of 2 Remove any dropped or pinched item. Be careful not to pinch Doors are easy to open or difficult to close sliding doors or is the power cord pinched between the items such as food items, the power cord, or plastics bags door and the refrigerator? between the door and the refrigerator. ③Is the refrigerator installed on an uneven surface? Are the 3 Lower the adjusting supports to raise the front of the adjusting supports contacting the floor? refrigerator and make closing the doors easier. Page 2 ①After defrosting it is normal for the sound level to increase. ①After the defrosting, there are times when sound becomes Loud or disturbing

noises.
The noises listed to the right are normal

②Sometimes, a whirring or rumbling sound is heard.

②These are the sounds of the flowing refrigerant (gas).

3 Sometimes after opening a door, a cracking sound or the sound of dripping water is heard from within the refrigerator. 3 A creaking or cracking sound is made when warm air has entered the refrigerator, causing the plastic parts to expand.



The refrigerator is equipped with piping to prevent condensation and for heat ventilation from the sides and above the unit. When the refrigerator is first used and during the summer, warm air can flow from under the refrigerator, especially when the exterior temperature is 50-60°C. This is necessary for cooling and is not a malfunction.

Specifications

Model name		MR-H290S		
Туре		Refrigerator-Freezer		
Volume		290L Refrigerator room : 175L Freezer room : 115L		
Outside dimension	Width	555mm		
	Depth	635mm		
	Height	1610mm		
Weight		54kg		
Voltage		230V/240V		
Frequency		50/60 Hz		

	Accessories	Quantity
ınt	Refrigerator compartment shelf (large)	2
npartme	Refrigerator compartment shelf (small)	1
r coi	Vegetable case	1
Refrigerator compartment	Utility box (Free egg tray attachment)	1
	Free pocket	2
	Bottle pocket	1
ent	Clean ice making tray	1
artm	Ice cube storage box	1
Freezer compartment	Freezer compartment shelf	1
	Freezer case (large)	1
	Freezer case (small)	1
	Drain pan	1

This appliance is designed for use in Australia and New Zealand only and cannot be used in any other country. No service is available outside of Australia and New Zealand.

Memo



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